

## ABSTRACT

In order to develop a vehicle seat with a seat frame for the mounting of a sitting area and with a supporting frame, which keeps the seat frame at a predetermined distance from the vehicle floor and connects the vehicle seat to the vehicle floor, in such a way that the seat supplies information on the weight of the occupants which is substantially uninfluenced in particular by the conditions which are very difficult in terms of measuring technology and the other special ambient conditions within a vehicle, it is proposed that the supporting frame comprises a height-adjusting device, in order to vary the distance of the seat frame from the vehicle floor in a defined way, that at least three load cells which respond to a weight acting on the sitting area and supply a signal corresponding to the weight are disposed at the corner points of an imaginary polygonal area, the signal corresponding to a weight resulting from a distance measurement, and that the load cells respectively have a one-piece force transducer with an elastically deformable part and a non-deforming part, the non-deforming part being fixed to the frame and the elastically deformable part being secured at a pivot point of the height-adjusting mechanism, or vice versa.